



www.howtonetwork.net

All the videos, exams, lectures, theory, labs, tools, tips and advice you need to pass your exams and be successful as an IT engineer.

 SITE TOUR VIDEO



[Home](#) [Join](#) [Live Cisco Racks](#) [Forum](#) [Downloads](#) [About Us](#) [Member Area](#) [FAQ](#) [WP](#) [Logout](#)

[home](#) | [SDM Labs](#) | SDM Lab 1

SDM Lab 1

 Printer-Friendly Format

Connectivity testing and troubleshooting : Serial0/0

IP address / hostname

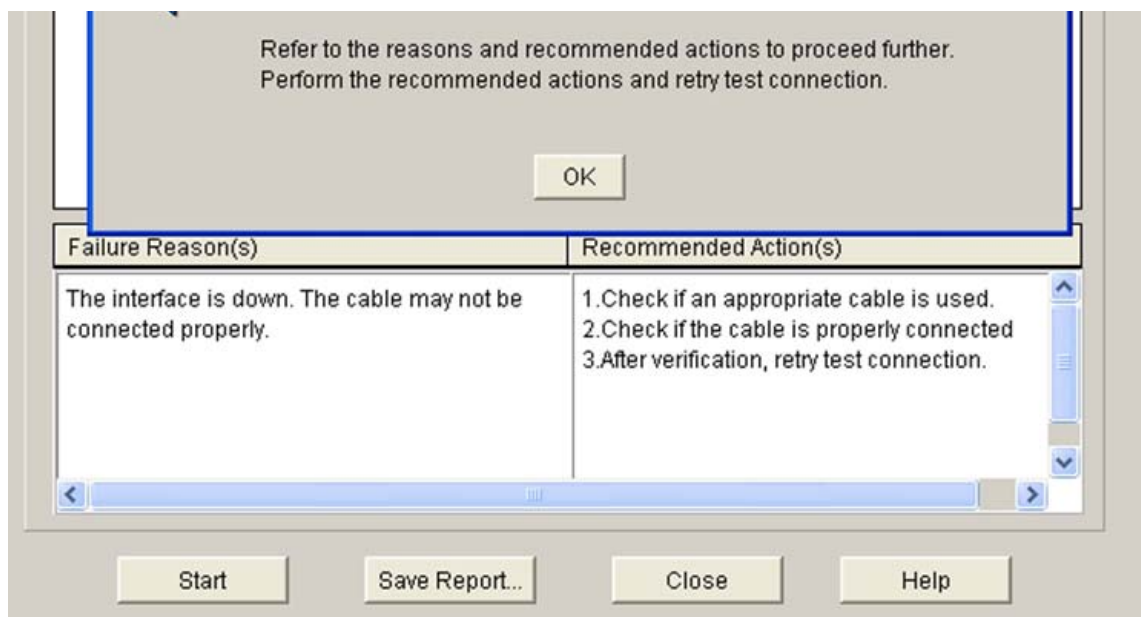
Select a ping option, enter the required value and click Start

☒ Automatically determined by SDM ☐ User-specified

[Summary](#) [Details](#)

Information

 Test connection failed.



The connection did not work because the clock rate is missing from RouterA. The two ways to deal with this are to add the DCE cable to RouterB or to use the command line to add a clock rate to RouterA. You cannot use SDM to add a clock rate.

```
RouterA>en
Password:
RouterA#conf t
Enter configuration commands, one per line. End with CNTL/Z.
RouterA(config)#interface serial 0/0
RouterA(config-if)#clockrate 64000
RouterA(config-if)#no shut
RouterA(config-if)#^Z
RouterA#
*Mar 1 02:01:59.557: %SYS-5-CONFIG_I: Configured from console by console
```

Now try the test again.

Connectivity testing and troubleshooting : Serial0/0

IP address / hostname

Select a ping option, enter the required value and click Start

☒ Automatically determined by SDM
 ☐ User-specified

SummaryDetails

Activity	Status
Checking interface status...	Up
Interface physical status :Up	
Line protocol status :Up	
Checking for DNS settings...	Failed
DNS lookup set :Yes	
Statically configured DNS servers :None	
Dynamically imported DNS servers :None	

Failure Reason(s)	Recommended Action(s)
DNS configuration check has failed. There are no DNS servers configured on the router.	Retest connection after configuring DNS server using Configure->Additional Tasks->DNS.

StartSave Report...CloseHelp

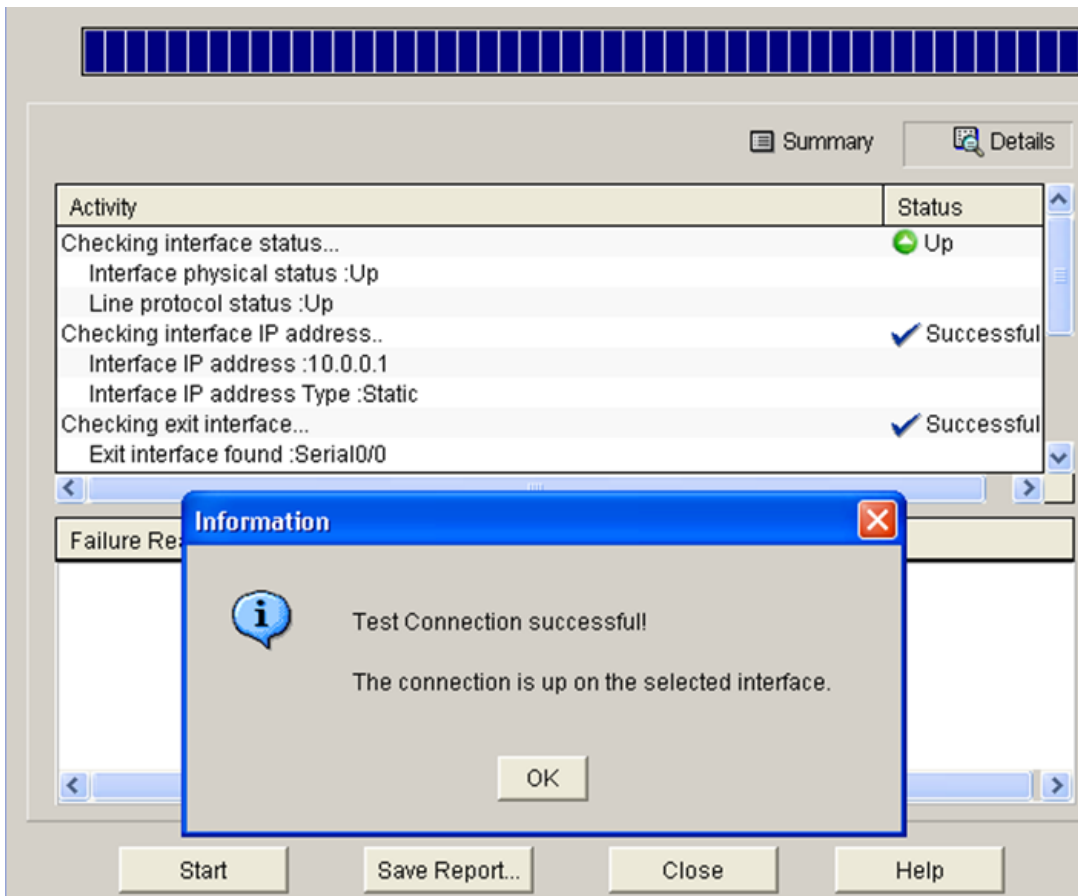
We have not configured DNS on the router so far so that part of the test will fail. You can try a 'user-specified' test instead and ping the serial interface on RouterB.

Connectivity testing and troubleshooting : Serial0/0

IP address / hostname

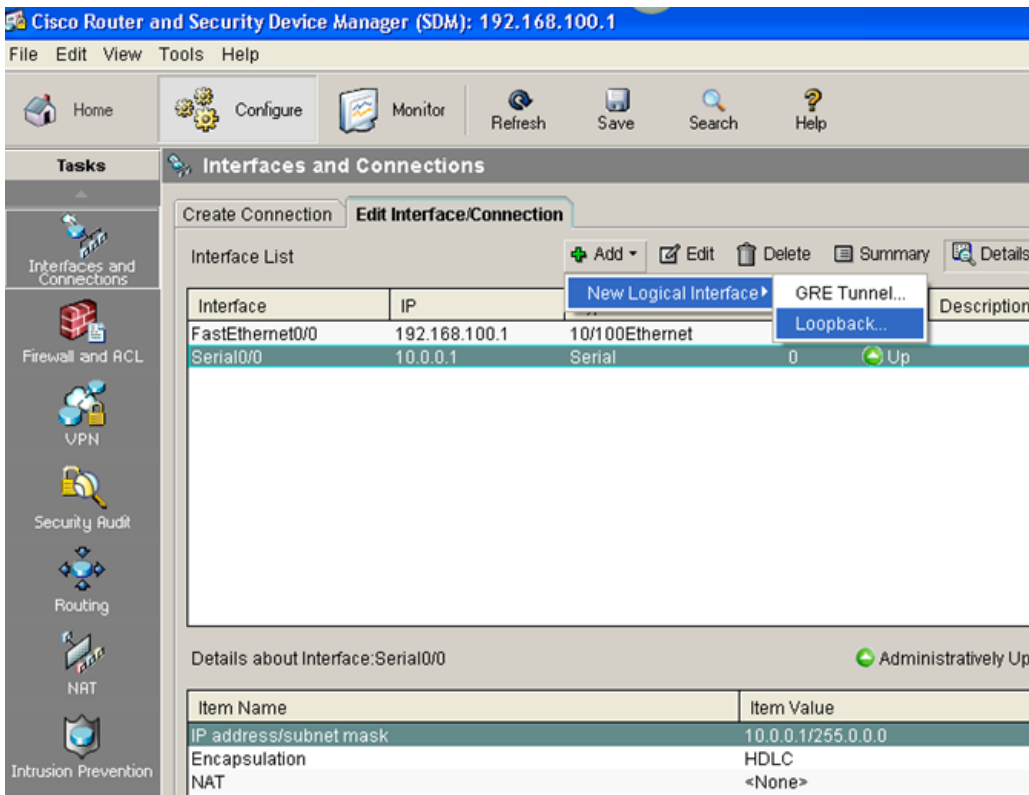
Select a ping option, enter the required value and click Start

☐ Automatically determined by SDM
 ☒ User-specified



10. Now we will create a loopback interface on RouterA. You may need to use a loopback interfaces for testing your routing protocols.

In 'Interfaces and Connections' mode click on 'Add -- New Logical Interface -- Loopback Interface.'



Access Rule - inbound	<None>
Access Rule - outbound	<None>
...	..

You then have a choice to have 'no ip address' or 'static ip address' so we will add a static IP address of 172.16.1.1 / 16.

Create Connection Edit Interface/Connection

Interface List

+

 Add Edit Delete Summary

Interface	IP	Type	Slot	Status
FastEthernet0/0	192.168.100.1	10/100Ethernet	0	Up
Serial0/0				

Add a Loopback interface

Configure the interface IP address

IP address

Static IP address

IP address: 172.16.1.1

Subnet mask: 255.255.0.0 or 16

OK

Cancel

Help

Details about Interface:Serial0/0

Item Name
IP address/subnet mask
Encapsulation

If you press 'OK' you will see that the interface loopback 0 has now been added to the list of router interfaces.

Interfaces and Connections

Create Connection Edit Interface/Connection

Interface List

+

 Add Edit Delete Summary

Interface	IP	Type	Slot	Status
FastEthernet0/0	192.168.100.1	10/100Ethernet	0	Up
Serial0/0	10.0.0.1	Serial	0	Up
Loopback0	172.16.1.1	Loopback		Up

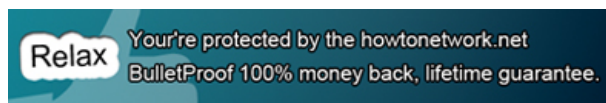
We have now completed the basic setup lab for SDM. It is very important that you practise this lab so you gain the hands on experience required for

the exam.

[Previous Page](#) - [SDM Labs](#)



Printer-Friendly Format



[Home](#) | [Search](#) | [Contact Us](#) | [Tell a Friend](#) | [Text Size](#)

2006-2011 HowtoNetwork.net All Rights Reserved. Reproduction without permission prohibited.

Reality Press, Midsummer Court, 314 Midsummer Blvd., Milton Keynes, MK92UB, UK

This site is powered by **MemberGate membership site software**